

CLAIMS

1. A novel Global Positioning System Receiver intended to perform both the correlation and navigation functions, facilitating easy channel configuration to change the sampling frequency in a software to interface with 'any' type of radio frequency down converter, comprising a RF down converter and GPS signal processor characterized in that, correlator is incorporated within the navigation processing unit which resides in a programmable digital signal Processor chip to realise the correlator function and navigation processor to eliminate the use of hardware correlator, a sampling clock being directly connects the DSP to the RF down converter making it possible to change the sampling frequency in the software to interface with any type of RF down converter.
2. A novel Global Positioning System Receiver as claimed in claim 1 wherein the correlator resides in an application specific integrated circuit.
3. A novel Global Positioning System Receiver as claimed in claim 1 wherein application specific integrated circuit is a hardware chip which is customised to needs of the correlator .
4. A novel Global Positioning System Receiver as claimed in claim 1 wherein the GPS receiver has been designed and modules incorporated to make seamless integration of multiple technologies feasible without any compromise in performance levels and without the need for a customised hardware.

5. A novel Global Positioning System Receiver as illustrated in the accompanying drawings and as substantially herein described.